This listing of claims will replace all prior versions, and listing, of claims in the

application.

LISTING OF CLAIMS:

1. (Currently amended) A local monitor unit for transmitting status information

formed of a plurality of pieces of status information indicating an operation state of a machine to

be monitored to an integrated monitor unit through a computer network, said local monitor unit

comprising:

a local information getting unit for getting the status information of the machine

connected to a first-type local computer network by identifying an address of the machine;

a local information retaining unit for retaining the status information obtained by

the local information getting unit and individual information of the machine;

a local information transmitting unit for transmitting at least a part of the plurality

of pieces of the status information retained in the local information retaining unit to the

integrated monitor unit through a second-type wide area computer network; and

a data transmitting unit for transmitting data to the integrated monitor unit through

the second-type wide-area computer network, the data being employed for registering in the

integrated monitor unit the machine to be monitored and the first-type local computer network

connected to the machine and being prepared based on the individual information retained by the

local information retaining unit into the integrated monitor unit;

wherein the integrated monitor unit identifies the status information is for which

machine to be monitored and connected to which first-type local computer network, based on the

data registered in the integrated monitor unit, to thereby make a predetermined display display

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the status information, the status information being transmitted by the local monitor unit at a

predetermined timing set at the local monitor unit.

2. (Previously presented) A local monitor unit according to claim 1, wherein said

local information getting units gets the status information in a first period,

said local information retaining unit updates the status information of the machine

whose operation state has been changed into the most recent status information before

transmitting the status information to said integrated monitor unit, and

said local information transmitting unit transmits the most recent status

information of the machine to the integrated monitor unit during a second period that is longer

than the first period.

3. (Previously presented) A local monitor unit according to claim 2, further

including a state determination unit for determining if the status information gotten by said local

information getting unit indicates an abnormal state of the machine,

wherein said local information getting unit gets the status information in a period

shorter than the first period only while said state determination unit determines that the status

information indicates an abnormal state of the machine.

4. (Original) A local monitor unit according to claim 3, wherein said local

information getting unit gets the status information of a plurality of machines and while said

state determination unit determines that the status information gotten from a specific machine

indicates an abnormal state of the machine, gets the status information only from the specific

machine in a period shorter than the first period.

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5. (Original) A local monitor unit according to claim 2, further including a state

determination unit for determining whether or not the status information gotten by said local

information getting unit indicates an abnormal state of the machine,

wherein when said state determination unit starts to determine that the status

information indicates a fatal error of the machine, said local information transmission unit

transmits information indicating the fatal error to the integrated monitor unit regardless of the

second period.

6. (Original) A local monitor unit according to claim 5,

wherein when said state determination unit determines that the fatal error is

solved within a predetermined time or the fatal error continues over a predetermined time, said

local information transmission unit transmits status information indicating the fact to the

integrated monitor unit regardless of the second period.

7. (Currently amended) A local monitor unit according to claim 1, further

including a display unit for displaying a main screen for indicating information concerning every

machine connected through the first-type local computer network and a subscreen for indicating

detailed information concerning a specific machine specified on the main screen.

8. (Previously presented) An integrated monitor unit which can communicate with

a plurality of local monitor units through a second-type global computer network, each of the

local monitor units monitoring through a first-type local computer network an operation state of

at least one of a plurality of machines to be monitored, said integrated monitor unit comprising:

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a global information getting unit for getting status information indicating the operation state of the machines to be monitored respectively by the local monitor units from said local monitor units through the second-type global computer network;

a database for storing information concerning each of the machines;

a database management unit for updating said database based on the status information gotten by said global information getting unit;

a display unit for displaying the information stored on said database; and

a data receiving unit for receiving data for registering said machine of which operation state is transmitted by an associated said local monitor unit voluntarily and the firsttype local computer network connected to said machine through the second-type global computer

network.

wherein each of the plurality of local monitor units transmits the status information of the machine at a predetermined timing set at that said local monitor unit, and said database management unit registers the data received through the second-type global computer network into said database and determines that the status information is for a particular said machine connected to one of the first-type local computer networks based on said registered data.

9. (Original) An integrated monitor unit according to claim 8, wherein said database also stores the past status information of the machines gotten by said global information getting unit, and wherein said display unit displays a main screen for indicating the status information of the machines connected through the first-type local computer network and a

subscreen for indicating a history of the status information of a specific machine specified on the

main screen.

10. (Original) An integrated monitor unit according to claim 9, wherein the main

screen indicates the most recent status information of each machine

11. (Previously presented) An integrated monitor unit according to claim 9,

wherein the main screen indicates the status information of for the machines grouped by each

first-type local computer network.

12. (Original) An integrated monitor unit according to claim 9, wherein the status

information contains information indicating the remaining amount of a consumable article and

wherein the subscreen for indicating a history of the status information of a specific machine

displays a history of the remaining amounts of the consumable article of the machine.

13. (Original) An integrated monitor unit according to claim 8, wherein the status

information contains remaining amount information of a consumable article of each of machines,

and said integrated monitor unit further comprises:

a statistical processing unit for predicting statistics of the remaining amount of the

consumable article based on the status information; and

an output unit for outputting the remaining amount statistics of the consumable

article predicted by said statistical processing unit.

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14. (Previously presented) A machine monitor system for executing centralized monitoring of status information indicating an operation state of each of a plurality of machines to be monitored, said machine monitor system comprising:

a plurality of local monitor units for respectively transmitting status information of a plurality of machines each to be monitored at a predetermined timing set at a corresponding said local monitor unit, each of the machines being connected to a first-type local computer network; and

an integrated monitor unit for receiving and monitoring the status information transmitted from each of the local monitor units through a second-type global computer network,

wherein each of the local monitor units comprises a transmitting unit for voluntarily transmitting to said integrated monitor unit data for registering an associated said machine whose operation state is transmitted by the local monitor unit and the first-type local computer network connected to said associates machine to said integrated monitor unit through the second-type global computer network, and

wherein said integrated monitor unit comprises:

a receiving unit for receiving the data transmitted from each of the local monitor units; and

a unit for registering the data received from the local monitor units and determining that the status information is for a particular said machine connected to one of the first-type local computer networks based on said registered data to thereby display the status information on a given display.

15. (Previously presented) A machine monitor method comprising:

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a local monitor step of monitoring an operation state of a machine through a first-

type local computer network; and

a global monitor step of monitoring said operation state of said machine

connected to the first-type local computer network through a second-type global computer

network.

wherein said local monitor step comprises:

a local information getting step of getting the status information of the machine;

a local information retention step of retaining the gotten status information;

a local information transmission step of sending the retained status information to

the second-type global computer network at a predetermined timing; and

a data transmission step of voluntarily sending to the second-type global computer

network data for registering said machine whose operation state is transmitted by the local

monitor unit and the first-type local computer network connected to said machine at said global

monitor step.

wherein said global monitor step comprises:

a data getting step of getting the status information through the second-type global

computer network:

a data registration step of registering the gotten status information into a database

for storing information concerning the machine to be monitored;

a global information getting step of getting the information through the second-

type global computer network;

a status information management step of identifying the status information gotten

at said global information getting step is for a particular said machine connected to the first-type

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computer network based on said registered data and updating the storing information concerning

the machine in the database by the identified status information; and

a display step of displaying the updated and stored information on a given display.

16. (Original) A machine monitor method according to claim 15, wherein the

status information contains remaining amount information of a consumable article of each of

machines, and said global monitor step comprises:

a statistical processing unit of predicting statistics of the remaining amount of the

consumable article based on the status information; and

an output step of outputting the remaining amount statistics of the consumable

article predicted by said statistical processing unit.

17. (Previously presented) A computer-readable medium storing a program for

causing a computer which is connected to a machine to be monitored through a first-type local

computer network and which can communicate with an integrated monitor unit through a

second-type global computer network to execute:

a local information getting step of getting status information indicating an

operation state of the machine to be monitored;

a local information retaining step of retaining the gotten status information;

a local information transmission step of transmitting the retained status

information to the integrated monitor unit through the second-type global computer network at a

predetermined timing;

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a data transmission step of voluntarily transmitting the data for registering said

machine whose operation state is transmitted by the first-type local computer network connected

to said machine to the integrated monitor unit through the second-type global computer network;

whereby the computer makes the integrated monitor unit display the status

information for the machine connected to the first-type computer network based on the data

registered in the data transmission step on a given display.

18. (Previously presented) A computer-readable medium storing a program for

causing a computer which is capable of communicating through a second-type global computer

network with each of a plurality of local monitor units, each of the local monitor units being

connected through a first-type local computer network to at least one associated machine to be

monitored, and which local monitor units can communicate with an integrated monitor unit, to

execute:

a data receiving step for receiving data for registering said associated machine to

be monitored by the local monitor unit and the first-type local computer network connected to

said associated machine from the local monitor unit;

a global information getting step for getting status information indicating the

operation state of the associated machine to be monitored by the local monitor unit transmitted

from said local monitor unit at a predetermined timing through the second-type global computer

network:

a status information management step of registering the gotten data in a given

database and identifying the gotten status information for the machine connected to the first-type

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 $computer\ network\ based\ on\ said\ registered\ data\ and\ updating\ the\ storing\ information\ concerning$

the machine in the database by the identified status information;

a database management step of updating the database with the identified status

information; and

a display step of displaying updated information of the database on a display.

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